

2010-11-19 Friday Morning Notes

Wednesday, November 17, 2010
7:12 AM

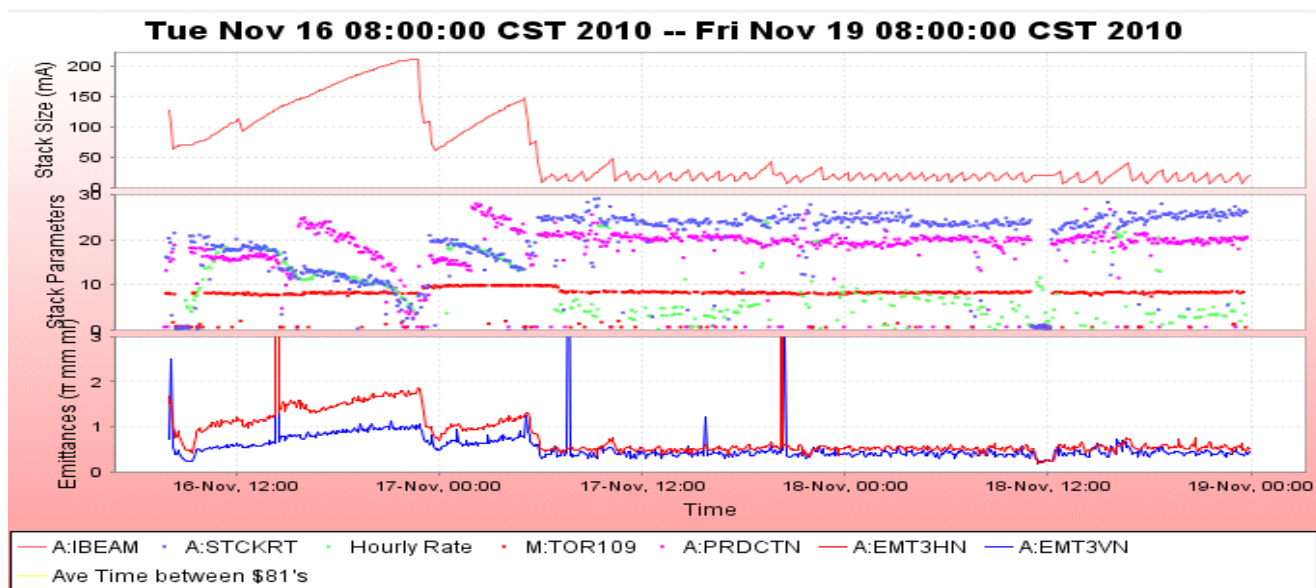
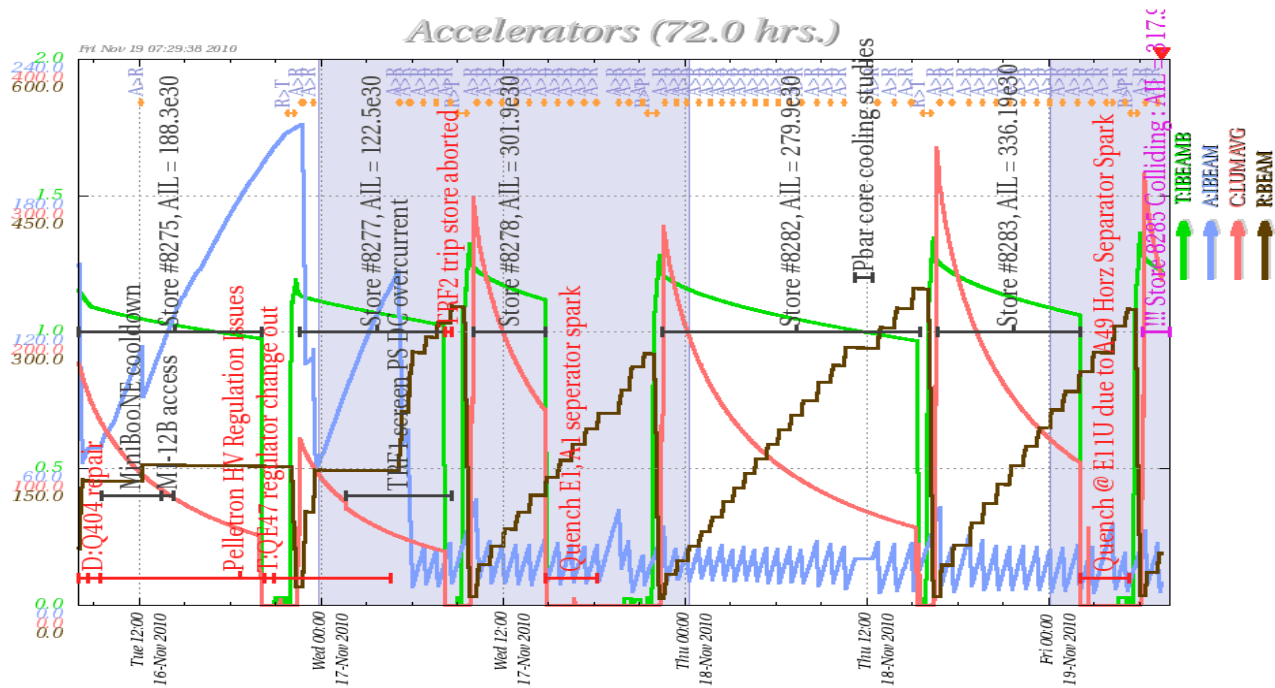
Stacking and Transfers

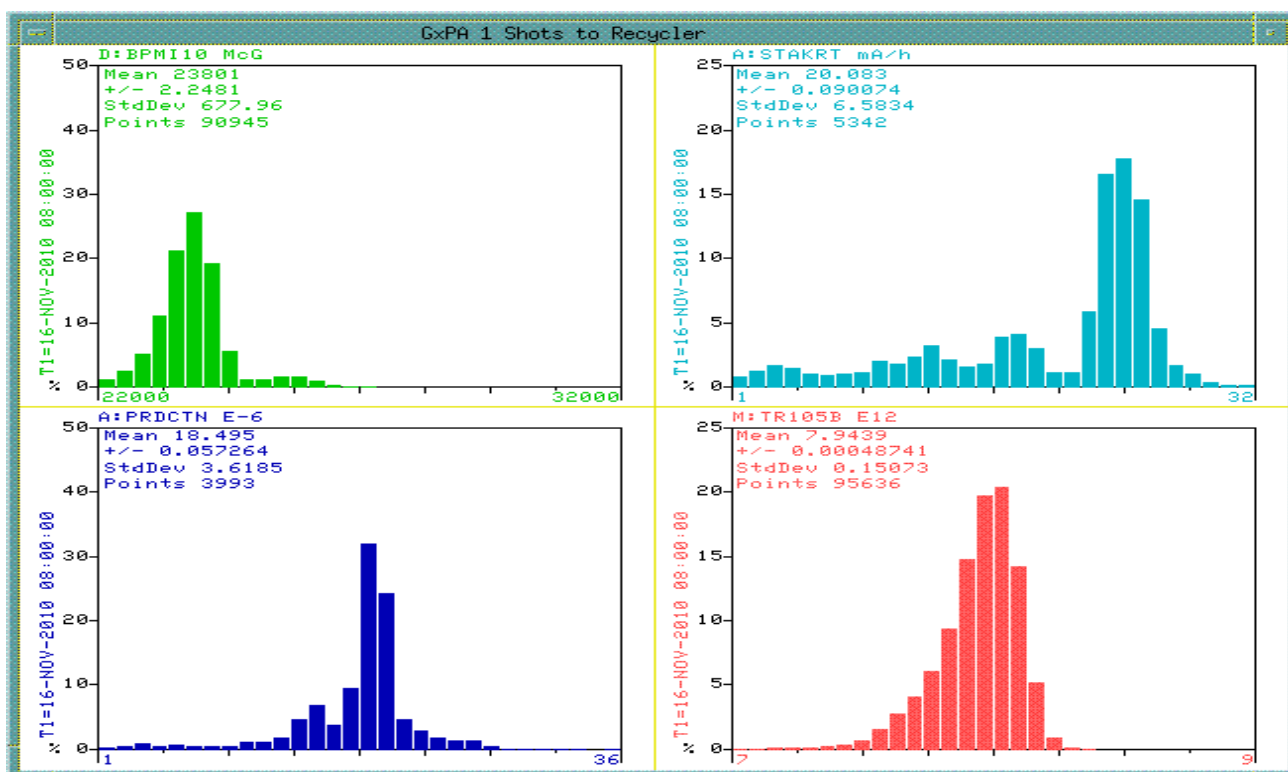
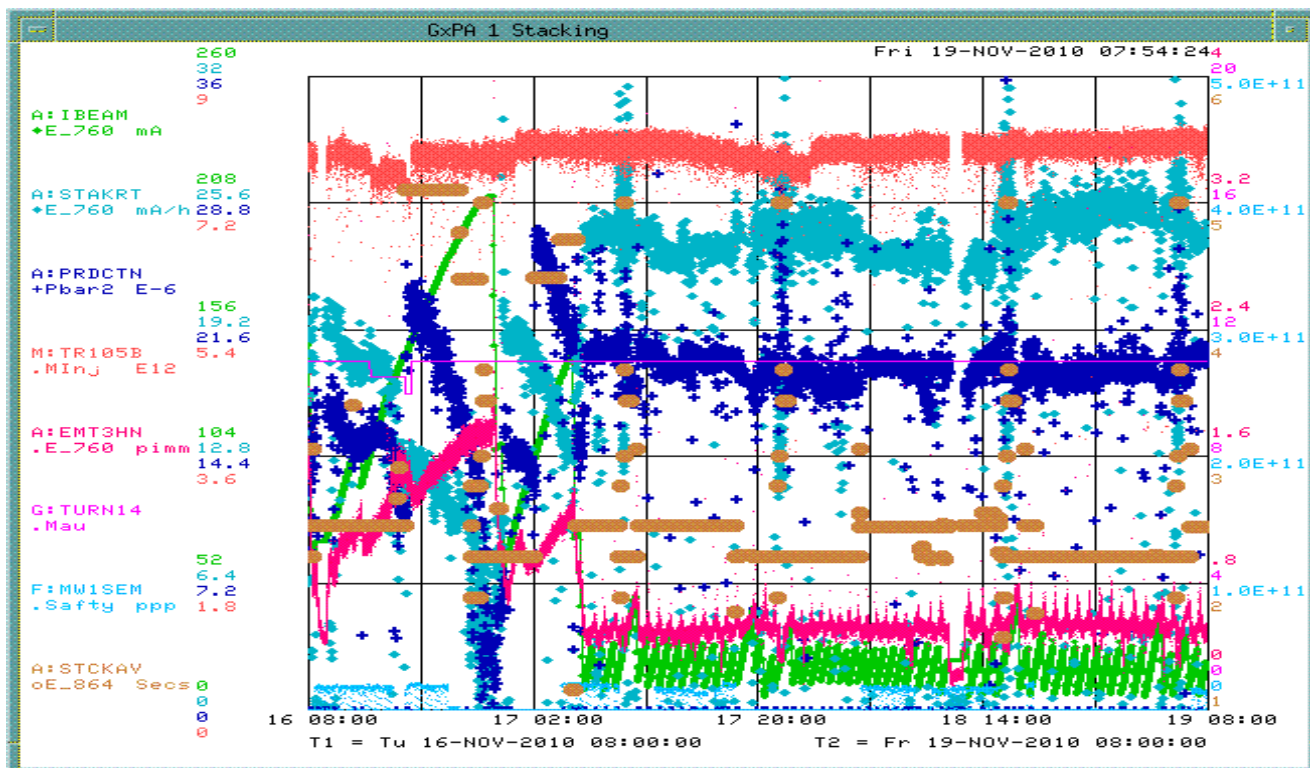
- Vertical emittance monitor has a dying oscillator upstairs.

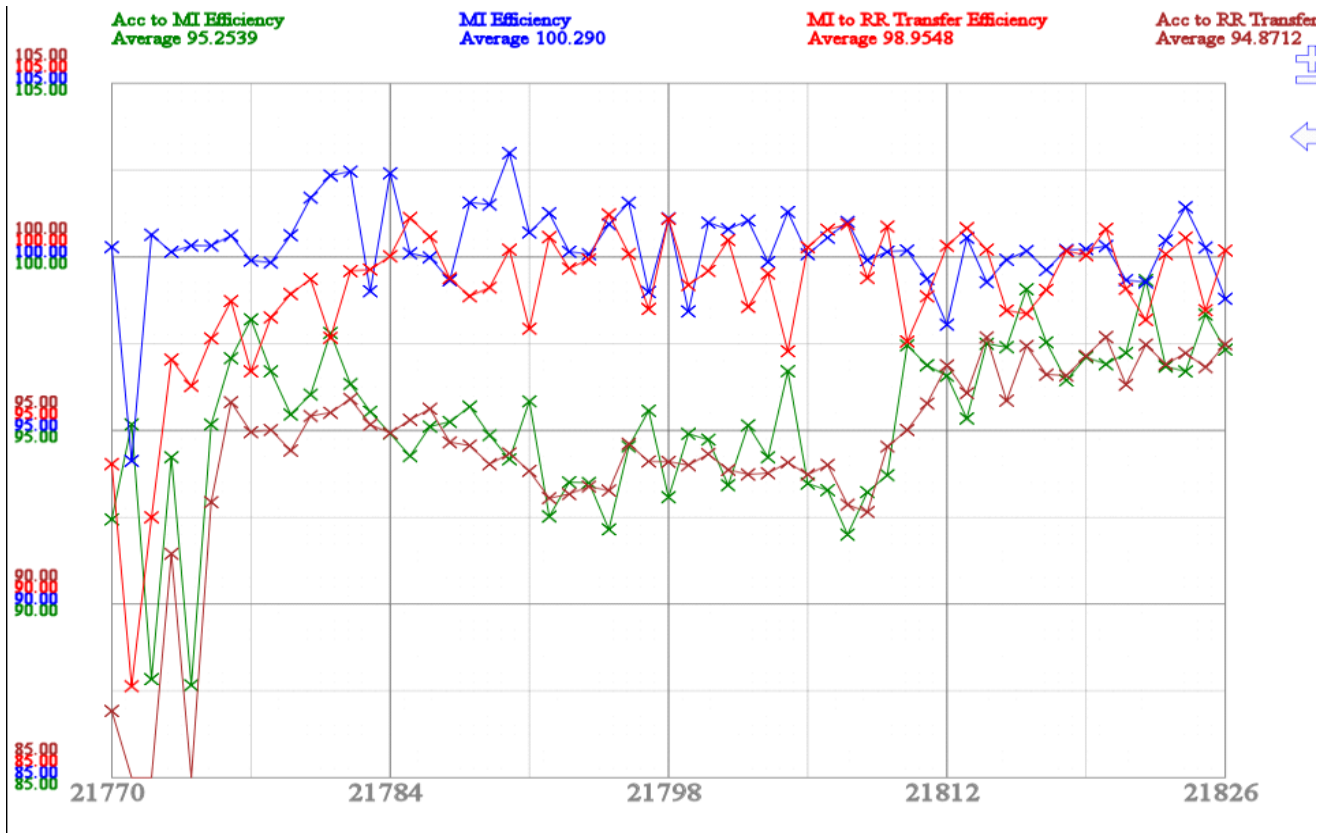
Numbers

- Stacking
 - Pbars stacked: 1391.23 E10
 - Time stacking: 69.41 Hr
 - Average stacking rate: 20.04 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 97681
 - Number of pulses with beam: 95073
 - Fraction of up pulses was: 97.33%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 67.55 Hr
 - Possible average stacking rate: 20.59 E10/Hr
 - Could have stacked: 1429.40 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1537.16 E10
 - Number of transfers : 181
 - Number of transfer sets: 57
 - Average Number of transfer per set: 3.18
 - Time taken to shoot including reverse proton tuneup: 00.63 Hr
 - Transfer efficiency: 92.30%
- Other Info
 - Average POT : 7.94 E12
 - Average production: 18.43 pbars/E6 protons

Plots







B	C	D	E	F	G	H	I	J	K	N	O	P	Q	R	S	T	U
Column 1 Number 0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time		Column 21 Number 20_A-I BEAMB sampled on \$91 (A-BEA M7). E10	Column 22 Number 21_A-I BEAMB sampled on \$94 (A-BEA M9). E10	Unstacked (mA)	Column 23 Number 22_R- BEAMS (R-BEA ME0[0]) pre fer E10	Column 24 Number 23_R- BEAM (R-BEA ME0[1]) post fer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number 4_Acc Horizont al Emittanc e	Column 6 Number 5_Acc Vertical Emittanc e	Column 8 Number 7_Acc Longitu dinal Emittanc e
	Totals =>				1504.71			1403.22	93.25%	94.78%	94.98%	90.02%	185	59	5.6839	4.3968	1.9672
	Daily Average =>				501.57			467.74					62	20			
21829	Friday, November 19, 2010	10:26	30.17	6.53	26.05	103.67	128.82	25.37	97.38%	97.79%	96.23%	94.10%	3	1	5.339	4.43	1.966
21828	Friday, November 19, 2010	9:18	28.04	6.35	24.13	80.63	103.90	23.43	97.11%	98.17%	97.79%	96.00%	3	1	5.203	4.115	1.973
21827	Friday, November 19, 2010	8:16	28.86	6.61	24.71	56.94	80.70	23.97	97.00%	97.04%	96.38%	93.53%	3	1	5.344	5.768	1.962
21826	Friday, November 19, 2010	7:11	24.92	5.79	21.59	36.19	57.07	21.07	97.60%	97.16%	96.04%	93.31%	3	1	5.241	4.442	1.992
21825	Friday, November 19, 2010	6:23	33.12	8.66	26.87	10.49	36.39	25.96	96.62%	98.02%	98.55%	96.60%	3	1	5.739	6.301	1.971
21824	Friday, November 19, 2010	5:04	23.30	6.11	19.72	306.75	325.68	19.18	97.29%	97.03%	98.53%	95.61%	3	1	5.347	6.986	2.011
21823	Friday, November 19, 2010	4:15	35.77	6.93	31.06	277.38	307.23	30.11	96.94%	97.36%	97.92%	95.34%	3	1	5.599	4.247	1.93
21822	Friday, November 19, 2010	2:52	25.93	5.48	22.48	256.36	278.04	21.88	97.33%	98.93%	98.13%	97.08%	3	1	4.891	4.027	1.97
21821	Friday, November 19, 2010	1:57	26.59	6.08	22.91	234.80	256.72	22.09	96.45%	97.73%	97.19%	94.98%	3	1	5.269	4.127	1.965
21820	Friday, November 19, 2010	0:57	25.25	6.31	21.31	214.66	235.20	20.79	97.56%	96.92%	97.20%	94.21%	3	1	5.106	3.843	2.01
21819	Friday, November 19, 2010	0:05	24.28	6.26	20.60	195.22	214.97	20.00	97.09%	97.13%	97.41%	94.61%	3	1	4.971	3.971	2.007
21818	Thursday, November 18, 2010	23:15	25.54	6.40	21.66	174.59	195.44	20.96	96.81%	96.75%	96.89%	93.74%	3	1	5.431	3.892	1.994
21817	Thursday, November 18, 2010	22:21	26.23	6.56	22.14	153.55	174.78	21.42	96.74%	97.63%	97.64%	95.33%	3	1	5.353	4.132	1.985
21816	Thursday, November 18, 2010	21:26	25.68	6.36	21.75	132.74	153.69	21.19	97.40%	98.80%	98.45%	97.27%	3	1	5.181	3.891	2.011
21815	Thursday, November 18, 2010	20:33	26.27	6.49	22.27	111.47	132.88	21.40	96.11%	97.82%	97.86%	95.73%	3	1	5.053	4.109	1.965
21814	Thursday, November 18, 2010	19:38	26.30	6.62	22.10	90.30	111.70	21.59	97.68%	97.92%	96.90%	94.89%	3	1	5.355	3.876	2.011
21813	Thursday, November 18, 2010	18:48	31.44	8.10	25.86	65.68	90.51	24.83	96.01%	95.94%	96.26%	92.36%	3	1	5.603	4.266	1.983
21812	Thursday, November 18, 2010	17:38	25.81	5.75	22.48	44.22	65.85	21.72	96.62%	96.71%	94.89%	91.76%	3	1	5.508	4.321	1.999
21811	Thursday, November 18, 2010	16:49	43.48	8.87	36.85	9.42	44.30	35.18	95.47%	96.86%	96.37%	93.35%	3	1	6.269	4.527	1.875
21810	Thursday, November 18, 2010	14:58	27.54	6.15	23.75	325.90	348.41	22.54	94.91%	97.85%	98.29%	96.18%	3	1	5.299	4.605	1.96
21809	Thursday, November 18, 2010	13:51	27.05	5.92	23.50	304.77	326.66	22.12	94.14%	93.51%	93.25%	87.20%	3	1	5.112	4.334	1.966
21808	Thursday, November 18, 2010	12:45	28.34	5.48	25.07	282.47	305.38	23.08	92.05%	92.60%	92.72%	85.86%	3	1	5.454	4.347	1.933
21807	Thursday, November 18, 2010	10:30	25.92	6.61	21.66	263.53	283.43	20.07	92.63%	92.03%	92.74%	85.35%	3	1	5.066	4.608	1.94
21806	Thursday, November 18, 2010	9:39	27.27	9.59	20.20	245.05	263.86	19.00	94.09%	93.41%	93.78%	87.60%	3	1	4.975	3.722	2.021
21805	Thursday, November 18, 2010	8:42	28.25	8.48	22.14	224.87	245.45	20.72	93.58%	93.57%	93.53%	87.52%	3	1	5.031	3.89	1.99
21804	Thursday, November 18, 2010	7:41	25.00	9.77	17.54	208.80	225.24	16.47	93.93%	96.58%	97.64%	94.30%	3	1	4.69	3.657	2.045
21803	Thursday, November 18, 2010	6:55	25.53	10.19	17.71	192.57	209.04	16.61	93.81%	94.31%	94.27%	88.91%	3	1	5.092	3.973	2.052
21802	Thursday, November 18, 2010	6:07	24.86	9.92	17.29	176.66	192.75	16.19	93.59%	95.45%	96.25%	91.87%	3	1	5.08	4.116	2.082
21801	Thursday, November 18, 2010	5:22	25.12	10.05	17.39	160.54	176.86	16.30	93.75%	93.46%	94.01%	87.86%	3	1	5.043	4.106	2.072
21800	Thursday, November 18, 2010	4:36	24.81	10.33	16.85	144.90	160.69	15.90	94.37%	94.54%	95.31%	90.11%	3	1	4.718	4.097	1.996
21799	Thursday, November 18, 2010	3:53	25.50	10.93	16.96	129.25	145.07	15.92	93.87%	94.92%	93.46%	88.72%	3	1	5.091	3.889	2.055
21798	Thursday, November 18, 2010	3:09	24.66	10.43	16.61	113.79	129.44	15.62	94.04%	93.06%	94.07%	87.55%	3	1	5.09	3.915	2.105
21797	Thursday, November 18, 2010	2:27	26.65	11.12	17.92	97.04	114.02	16.87	94.14%	95.61%	94.66%	90.50%	3	1	4.974	3.459	2.085
21796	Thursday, November 18, 2010	1:40	25.57	10.87	17.12	81.14	97.23	16.18	94.53%	94.48%	96.04%	90.74%	3	1	4.959	3.792	2.09
21795	Thursday, November 18, 2010	0:57	26.68	11.52	17.57	64.89	81.25	16.37	93.18%	92.21%	93.07%	85.82%	3	1	5.145	3.954	2.088
21794	Thursday, November 18, 2010	0:10	25.52	10.56	17.34	48.80	65.01	16.20	93.41%	93.69%	93.89%	87.96%	3	1	4.864	3.89	2.076
21793	Wednesday, November 17, 2010	23:25	24.97	11.31	16.05	33.89	48.84	14.95	93.15%	93.56%	93.54%	87.52%	3	1	4.943	3.711	1.839
21792	Wednesday, November 17, 2010	22:38	34.90	10.34	28.01	7.83	33.86	26.07	93.08%	92.55%	93.43%	86.47%	4	1	5.235	3.838	2.041
21791	Wednesday, November 17, 2010	21:13	22.04	9.01	15.43	262.25	276.74	14.50	93.95%	95.63%	96.53%	92.31%	3	1	5.019	3.59	2.099
21790	Wednesday, November 17, 2010	20:19	28.55	5.54	27.71	236.67	262.64	26.15	94.38%	94.51%	96.76%	91.45%	5	1	5.266	3.724	2.074
21789	Wednesday, November 17, 2010	19:40	42.17	16.06	28.15	210.84	237.01	26.41	93.81%	94.79%	96.15%	91.14%	3	1	5.716	4.103	1.983
21788	Wednesday, November 17, 2010	18:12	26.52	10.33	18.57	193.82	211.29	17.55	94.47%	95.95%	97.16%	93.23%	3	1	5.155	4.307	2.078
21787	Wednesday, November 17, 2010	17:22	25.77	9.99	18.14	176.92	194.08	17.18	94.69%	95.27%	94.58%	90.10%	3	1	4.956	4.146	2.067
21786	Wednesday, November 17, 2010	16:31	26.69	10.07	18.96	159.25	177.16	18.14	95.65%	95.54%	95.41%	91.15%	3	1	4.979	4.154	2.041
21785	Wednesday, November 17, 2010	15:38	27.40	9.39	20.22	140.47	159.50	19.25	95.20%	94.30%	94.53%	89.14%	3	1	4.773	4.109	2.007
21784	Wednesday, November 17, 2010	14:45	28.90	10.26	20.98	120.89	140.69	19.94	95.03%	95.05%	97.30%	92.48%	3	1	4.598	3.997	2.045
21783	Wednesday, November 17, 2010	13:44	26.33	8.80	19.55	102.44	121.01	18.57	95.00%	95.61%	94.55%	90.40%	3	1	4.649	3.962	2.017
21782	Wednesday, November 17, 2010	12:52	26.80	9.29	19.82	83.69	102.57	19.02	95.97%	96.68%	98.56%	95.29%	3	1	4.748	3.93	2.029
21781	Wednesday, November 17, 2010	11:59	27.10	9.22	20.31	64.57	83.85	19.39	95.46%	97.76%	99.85%	97.62%	3	1	4.746	4.132	2.002
21780	Wednesday, November 17, 2010	11:07	28.26	9.68	21.05	44.66	64.63	20.07	95.37%	95.89%	97.77%	93.75%	3	1	5.157	4.178	2.027
21779	Wednesday, November 17, 2010	10:15	46.86	11.96	38.33	9.32	44.89	36.01	93.94%	95.72%	95.92%	91.81%	4	1	6.132	4.69	1.968
21778	Wednesday, November 17, 2010	8:30	27.41	9.69	20.20	310.14	328.87	19.18	94.91%	96.68%	96.58%	93.38%	3	1	4.963	3.978	2.024
21777	Wednesday, November 17, 2010	7:36	24.90	8.43	18.94	293.91	311.46	18.03	95.23%	98.09%	97.99%	96.12%	3	1	4.767	3.653	2.003
21776	Wednesday, November 17, 2010	6:49	26.49	9.33	19.62	277.16	295.48	18.79	95.75%	97.26%	98.14%	95.45%	3	1	4.973	4.071	1.962
21775	Wednesday, November 17, 2010	5:46	77.28	8.23	73.93	212.19	278.74	68.21	92.26%	94.76%	95.30%	90.31%	6	1	6.441	4.344	1.834
21774	Wednesday, November 17, 2010	5:09	147.23	70.42	78.62	147.62	212.96	66.39	84.44%	87.69%	88.00%	77.17%	4	1	12.139	7.998	1.541
21773	Tuesday, November 16, 2010	23:30	109.81	58.45	51.92	102.06	149.12	47.45	91.39%	94.19%	94.35%	88.87%	3	1	9.14	5.821	1.599
21772	Tuesday, November 16, 2010	22:46	210.91	106.29	104.50	20.60	103.46	84.87	81.22%	87.81%	88.36%	77.59%	5	1	17.581	8.94	1.375
21771	Tuesday, November 16, 2010	12:13	113.74	91.18	22.56	136.10	154.91	18.82	83.40%	95.17%	89.58%	85.25%	1	1	11.79	6.409	1.273